W. Frank Moore

	Department of Ma Manchester Hall Wake Forest Unive Winston-Salem, N	thematics ersity C, 27106	email: moorewf@wfu.edu home: (336) 776-8155 http://users.wfu.edu/moorewf
EDUCA	TION	 Ph.D. Mathematics, August 2008 University of Nebraska–Lincoln Thesis: Cohomology of local rir Thesis Advisor: Professor Luch M.S. Mathematics, May 2004 University of Nebraska-Lincoln B.S. Mathematics with Honors, M University of Texas at Arlingto Honors Thesis: Building modul Honors Thesis Advisor: Profess 	ags ezar L. Avramov, Dale M. Jensen Chair in Mathematics lay 2002 n es having prescribed cohomological support set for David Jorgensen
EMPLO	YMENT	 Assistant Professor Wake Forest University (2011 - H.C. Wang Assistant Professo Cornell University (2008 - 2011 Graduate Teaching Assistant University of Nebraska – Lincol Computer Programmer MLS Computer Services (1999) 	Present) r) ln (2002 - 2008) - 2002)
PUBLIC	CATIONS	Computations with noncommutatin with Andrew Conner and Cour Totally acyclic approximations, with Petter Bergh and David J Available at arXiv:1606.07976 On discriminants of certain extenss with Jason Gaddis and Ellen K Available at arXiv:1606.03105 Periodic free resolutions from twist with Tom Cassidy, Andrew Con Journal of Algebra 455 (2016), Finiteness conditions on the Yoned with Andrew Conner, Ellen Kin Journal of Pure and Applied A Moment angle complexes and big O with Shisen Luo and Tomoo M Algebraic and Geometric Topol Connected sums of simplicial comp with Tomoo Matsumura Osaka Journal of Mathematics The vanishing of a higher codimen with Greg Peipmeyer, Sandra S Mathematische Zeitschrift 273 Connected sums of Gorenstein loca with Luchezar L. Avramov and Journal für die reine und angey Hochster's theta function and the F with Greg Peipmeyer, Sandra S Advances in Mathematics 226 (Minimal intersections and vanishin with David A. Jorgensen Journal of Commutative Algebr	 we algebras using Bergman and Macaulay2 tney Gibbons, in preparation orgensen, submitted. <i>ion rings</i>, <i>iirkman</i>, submitted. <i>ted matrix factorizations</i>, mor, and Ellen Kirkman 137–163, <i>la algebra of a monomial algebra</i>, <i>ickman and James Kuzmanovich</i> lgebra 218 (2014), no. 1, 5264. <i>Cohen-Macaulayness</i> atsumura logy 14 (2014), no. 1, 379406. <i>olexes and equivariant cohomology</i> 51 (2014), no. 2, 405423. <i>sion analog of Hochster's theta invariant</i>, <i>biproff</i>, and Mark E. Walker (2013), no. 3-4, 907–920 <i>cl rings and structure of cohomology algebras</i>, H. Anantharayan vandte Mathematik (Crelle's journal) 667 (2012), 149–176 <i>Hodge-Riemann bilinear relations</i>, <i>biproff</i>, and Mark E. Walker. (2011), no. 2, 1692–1714 <i>ag (co)homology</i>, ra 3 (2009), no. 3, 507–536 <i>local rings</i>, no. 3, 758–773,

SOFTWARE	NCAlgebra: A Macaulay2 noncommutative algebra package Available at http://users.wfu.edu/moorewf Written with Andrew Conner and Courtney Gibbons DGAlgebras: A Macaulay2 differential graded algebra package Available at http://users.wfu.edu/moorewf
EXTERNAL FUNDING	Intensive Workshop for Macaulay2 Package Development With Amelia Taylor, Colorado College NSA Grant #H98230-11-1-0238 (\$12,050), NSF grant DMS-1158900 (\$17,126) Wake Forest University, Winston-Salem, NC, August 2012
AWARDS AND FELLOWSHIPS	 Wake Forest University A. J. Sterge Faculty Fellow, 2016-2018 CRADLE IV Fellow, 2013-2015 Cornell University Junior Faculty Teaching Award, 2010 University of Nebraska Outstanding Teaching by a GTA, 2007 Mentoring Through Critical Transition Points Fellow, 2006 Emeritus Faculty Fellow, 2004-2005 and 2005-2006 Maude Hammond Fling Fellow, University of Nebraska, 2004-2005 Honorable Mention, Outstanding Teaching by a GTA, 2004
CONFERENCES ORGANIZED	 Intensive Workshop for Macaulay2 Package Development With Hirotachi Abo, Zach Teitler, Michael Stillman, Daniel Grayson and David Eisenbud External funding from Macaulay2 NSF Grant University of California, Berkeley, CA, May 2015 1107th AMS Meeting With Ela Celikbas and Olgur Celikbas, University of Connecticut Special session on Algebra and Representation Theory Georgetown University, Washington, DC, March 2015 Intensive Workshop for Macaulay2 Package Development With David Swinarski, Sonja Mapes, Michael Stillman, Daniel Grayson and David Eisenbud External funding from Macaulay2 NSF Grant University of California, Berkeley, CA, January 2014 Intensive Workshop for Macaulay2 Package Development With Amelia Taylor, Colorado College With external funding from NSA Grant #H98230-11-1-0238, NSF Grant DMS-1158900 Wake Forest University, Winston-Salem, NC, August 2012 1073th AMS Meeting With Allen Knutson, Cornell University Special session on combinatorial algebraic geometry Wake Forest University, Winston-Salem, NC, September 2011
EXTERNAL SERVICE	 Professional NSF Grant Review Panelist Reviewer for: MathSciNet, Journal of K-Theory, Communications in Algebra, Proceedings of the AMS, Journal of Symbolic Computation, Springer Journal of Commutative Algebra, Osaka Journal of Mathematics Community MATHCOUNTS volunteer judge, 2012, 2014 – Present
PROFESSIONAL MEMBERSHIPS	American Mathematical Society (2002–Present) Mathematical Association of America (2006–Present) Association for Women in Mathematics (2015–Present) Society for Industrial and Applied Mathematics (2015–Present)

RECENT TEACHING EXPERIENCE	$\begin{array}{llllllllllllllllllllllllllllllllllll$
UNIVERSITY SERVICE	 Wake Forest University Advising Lower Division Advisor, Fall 2012 – Present Incoming Freshman Course Registration, 2015, 2016 Faculty House Calls, 2013 – Present Undergraduate Project Advisor 2015 – 2016: Mike Annunziata 2014 – 2015: Ariel Hawley 2013 – 2014: Steven Hemric, Ryan Dougherty Graduate Thesis Advisor 2016 – 2017: Mike Annunziata, Brad Hall 2015 – 2016: Terry Henderson 2014 – 2015: Justin Lyle, Andrew Kobin Departmental Committees Math Club Faculty Co-Sponsor Fall 2012 – Present Undergraduate Curriculum Committee, Fall 2011 – Present Math 112 Committee, Fall 2011 – Present Hiring Committee, 2014–2015, 2015–2016 Colloquium Committee, 2011–2012, 2014-2015 Other Departmental/University Service WFU Senior Orations Written Judge, 2016 WFU Richter Graduate Scholarship Commitee, 2014 – Present STEM @ Wake Presenter, 2014 – Present Math Subject GRE Review Presenter, 2012 – Present Fall Math Department Picnic Organizer, 2012 – Present

INVITED CONFERENCE	1117th AMS Meeting
TALKS	Athons CA March 2016
TALKS	2016 Joint Mathematics Meetings
	Tools for computing discriminants
	Seattle, WA, January 2016
	2015 Joint Mathematics Meetings
	Understanding Auslanders Theorem for noncommutative algebras
	San Antonio, TX, January 2015
	Foundations of Computational Mathematics
	Performing computations in noncommutative algebra with Macaulay2 and bergman
	Montevideo, Uruguay, December 2014
	Periodic free resolutions defined by twisted matrix factorizations
	Texas Tech University Lubbock TX April 2014
	1090th AMS Meeting
	Cohomology of Monomial Algebras
	Iowa State University, Ames, IA, April 2013
	Representation Theory, Homological Algebra, and Free Resolutions
	Revisiting Auslander's 1962 ICM Address
	Mathematical Sciences Research Institute, Berkeley, CA, February 11–17, 2013
	1074th AMS Meeting
	Connected sums of simplicial complexes
	University of Nebraska, Lincoln, NE, October 2011
	Connected sums of simplicial complexes
	Connected sums of simplicial complexes
	1062nd AMS Meeting
	On an invariant of graded isolated complete intersection singularities
	Syracuse University, Syracuse, NY, October 2010
	1053rd AMS Meeting
	Hochster's theta function and the Hodge-Riemann bilinear relations, II
	Florida Atlantic University, Boca Raton, FL, October 2009
	1052nd AMS Meeting
	Golod homomorphisms and trivial G-type
	Penn State University, State College, PA, October 2009
	Cohomology of connected symp. of logal rings
	Baylor University Waco, TX, October 2009
	2008 Route 81 Conference
	Hochster's theta function
	Queen's University, Kingston, ON, October 2008
	2008 Joint Mathematics Meetings
	Cohomology of connected sums of artinian Gorenstein rings
	San Diego, CA, January 2008
	1030th AMS Meeting
	Cohomology of connected sums of artinian Gorenstein rings
	DePaul University, Chicago, IL, October 2007
	Regional Workshop in the Mathematical Sciences
	University of Nebraska Lincoln NE October 2006
	Workshop on Hilbert functions and monomial resolutions
	Cohomology over fiber products of local rings
	Cornell University, Ithaca, NY, May 2006
	1011th AMS Meeting
	Cohomology over fiber products of local rings
	San Francisco State University, San Francisco, CA, April 2006
	Texas Undergraduate Mathematics Conference
	Panelist for Life in Graduate School
	Sam Houston State University, TX, October 2005

CONFERENCES	Representation Theory, Homological Algebra, and Free Resolutions
ATTENDED	Mathematical Sciences Research Institute, Berkeley, CA, February 11–17, 2013
BY INVITATION	Macaulay2 Workshop
	Institute for Mathematics and its Applications, Minneapolis, MN, July 24–30, 2011
	Mathematical Research Communities - Commutative Algebra
	Snowbird, UT, June 26-July 2, 2010
	Macaulay2 Workshop
	Mathematical Sciences Research Institute, Berkeley, CA, January 8-12, 2010
	Commutative Algebra and its Connections to Geometry
	Olinda, Pernambuco, Brazil, August 3-14, 2009
	Macaulay2 Conference
	Cornell University, Ithaca, NY, March 16-19, 2008
	Syzygies and Hilbert Functions
	Banff, Alberta, Canada, October 14-19, 2006
	Summer School on Hilbert Functions and Monomial Resolutions
	Cornell University, Ithaca, NY, May 6-13, 2006
	Commutative Algebra and its interactions with Homological Algebra,
	Representation Theory, Intersection Theory, and Singularity Theory
	Minnowbrook Adirondack Conference Center, NY, August 5-10, 2005
	Summer Research Conference on Commutative Algebra
	Snowbird, UT, June 19-July 1, 2005
	Mini-Course: Classical Problems in Commutative Algebra
	Salt Lake City, UT, June 7-18, 2004
	KUMUNU Algebra Day , Lawrence, KS, 2003, 2004, 2006
	Interactions with Homological Algebra and Representation Theory
	Mathematical Sciences Research Institute, Berkeley, CA, February 3-7, 2003
	MSRI Introductory Workshop in Commutative Algebra
	Mathematical Sciences Research Institute, Berkeley, CA, September 9-13, 2002